6-2-2023

Project 6

Green Wave

Introduction

In the past few years we have been concerned about CO2 emissions from the combustion of fossile gas and oil.

Emissions make our earth warmer, which causes enormous problems, in other words our climate changes. Due to climate change, the ice is melting in cold places, such as in the North Pole. Because the ice melts, the sea level rises. Climate change also causes a lot of moisture in the air which can cause heavy rain and floods. By means of severe heat on earth also causes forest fires.

Our climate is certainly changing.

Another problem we have on the earth is that the population is increasing, due to an increase more energy is consumed. Because there are now more people on earth, there is now also a need more to be built. In order to build, a lot of nature has to be destroyed.

So we want to destroy nature as little as possible, our goal is to be energy neutral and Bio-based as much as possible.

Bio-based means that we build with materials that have been made of renewable raw materials.

Two important SDGs that fit this topic:

• Take care of each other

• Ensure Biodiversity

All SDGs are intended for sustainable development. The core of the SDG is an end to extremes poverty, inequality, injustice and climate change.

Lines:

There are also certain rules in the field of Biodiversity. These rules help to promote biodiversity strengthen.

Important two rules:

• Energy transition

• Circular economy

Two important rules have their own other rules. As:

• Rule 1: Use less energy and materials => Reduce

• Rule 2: Use sustainable materials and energy => Renewables

• Rule 3: Use material as long as possible => Reuse

Possibilities and solutions:

Much material is not reused after, for example, demolition of a certain building. That is of course not the intention, we must reuse as much material as possible. There are plenty ways to reuse materials.

As:

• In order to be able to reuse materials, we must build in such a way that we can release materials linking a structure. As an example I take a wooden cupboard. Namely one
You can easily put the wooden cupboard together and then take it out and take it out
You can still use it again by assembling the same cabinet together. We can do that too to build a wooden construction that can be taken apart and used again.

• We can develop sustainable energy by using solar panels, hydropower, biomass and biogas. Biomass is animal or vegetable material origin. The majority of the Netherlands produces green energy derived from biomass.

• We can also form a Bio-Cycle, we can ferment material such as wood, through wood fermenting creates a kind of round. That kind of soil is put back into forests, which

is good for nature.

• To reduce CO2 we can plant more greenery. For example: on the roofs

going to plant plants. The more plants and trees, they less CO2 in the air.

There are several ways to build sustainably, construction can be done without impact. That means: CO2 neutral, sustainable, ecological and energy neutral construction. That means we building without…

• CO2 emissions

• Air pollution

• Water pollution

• Green areas pollution

• Material such as: concrete and stone

• Make less use of green land

SDGs of the Netherlands

• Poverty

• Not hungry

• Good health

• Equality

• Reduce inequality

• Quality education

• Clean water

• Sustainable cities

• Climate action

• Life in the water

• Living on land

• Affordable and sustainable energy

• Fair work and economic growth

• Industry, innovation and infrastructure

• Sustainable cities

• Responsible consumption

Solutions and ideas in the field of construction without impact:

• Social housing: There is a simple way to build social housing, such as

wikihouse. Wikihouse is an open source project for designing and building houses.

The aim of the project is to build sustainable homes with limited use

simplify raw materials.

• Urban climate roof: this means that greenhouses are made on roofs and green roofs.

• Healthy homes: to make homes healthy, this must be taken into account

with carbon monoxide. Carbon monoxide is a dangerous substance that you cannot see or smell. For

more information -> Healthy Living 2020

• Educational buildings: Building schools with many open spaces.

• Gender and buildings: Why are there fewer wrinkles in construction?

• Hydrophilic filter for rainwater, green roofs, collecting rain roofs from the roof in tanks,

by collecting water from the roof, water does not have to be pumped from the ground

tank.

• Using solar panels, storing energy using home batteries.

• Modular buildings: way of building quickly.

• Reduce poverty.

• Concern

Every student had to create a document about the guest lesson.

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